CLAIMS

- 1. A synthetic resin emulsion for use as a main component of a sealer composition for recoating a coating and comprising synthetic resin particles dispersed in water, said synthetic resin emulsion which is produced by copolymerizing
- 99.5% (a) 20 tο bv weight οf an alkvl (meth)acrylate wherein the content of an alkyl (meth)acrylate, in which the alkyl group has 4 or less carbon atoms, is not less than 50% by weight based on the whole alkyl (meth)acrylate;
- (b) 0.5 to 10% by weight of an ethylenically unsaturated carboxylic acid; and
- (c) 0 to 79.5% by weight of a monomer copolymerizable with said monomers (a) and (b), in the presence of an alkyldiphenyl ether disulfonate as an emulsifier
- said synthetic resin emulsion having a glass transition temperature (Tg) of 15 to 50°C , the average particle diameter of the synthetic resin particles dispersed in water being 0.01 to 0.2 μm .
- 2. The synthetic resin emulsion according to claim 1, wherein the minimum film-forming temperature (MFT) is 0°C or below.
- 3. The synthetic resin emulsion according to claim 1 or 2, wherein the alkyl (meth)acrylate, in which the alkyl group has 4 or less carbon atoms, is selected from the group consisting of methyl methacrylate, butyl acrylate, butyl methacrylate, ethyl acrylate, and ethyl methacrylate.
- 4. The synthetic resin emulsion according to any one of claims 1 to 3, wherein the copolymerizable monomer is a monomer having a functional group selected from the group consisting of glycidyl, ureido, acetoacetoxy, acetoacetyl, amide, allyl, silyl, nitrile, and hydroxyl groups.

- 5. The synthetic resin emulsion according to claim 4, wherein the amount of the monomer having a functional group used is 0.1 to 10.0% by weight based on the whole monomer contained in the synthetic resin emulsion.
- 6. The synthetic resin emulsion according to claim 4 or 5, wherein the monomer having a functional group is acetoacetoxyethyl (meth)acrylate.
- 7. A sealer composition for recoating a coating, comprising the synthetic resin emulsion according to any one of claims 1 to 6.
- 8. The sealer composition according to claim 7, which further comprises an aqueous dispersion of a chlorinated polyolefin.
- 9. An exterior material for buildings, which has been coated with the sealer composition for recoating of a coating according to claim 7.
- 10. A process for producing the synthetic resin emulsion according to claim 1, comprising the steps of:
- providing, as monomers, at least an alkyl (meth)acrylate, an ethylenically unsaturated carboxylic acid, and a monomer copolymerizable with the alkyl (meth)acrylate and the ethylenically unsaturated carboxylic acid; and copolymerizing the monomers in the presence of an alkyldiphenyl ether disulfonate.
- 11. A method for recoating of a coating provided on the surface of an exterior material, comprising the steps of: coating the sealer composition according to claim 7 onto an old coating provided on the surface of an exterior material; and then coating a topcoating material on the coating of the sealer composition.
- 12. The method according to claim 11, wherein the old coating has been formed using a resin coating material.
- 13. The method according to claim 11 or 12, wherein the topcoating material is an elastic coating material, an acrylic resin coating material, an acryl/styrene resin coating material, an acryl/silicone resin coating

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- material, a silicone resin coating material, an acryl/urethane resin coating material, or an urethane resin coating material.
- 14. The method according to any one of claims 11 to 13, wherein the sealer composition further comprises an agueous dispersion of a chlorinated polyolefin.
- 15. Use of the synthetic resin emulsion according to any one of claims 1 to 6, for the production of a sealer composition for recoating of a coating.